

Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

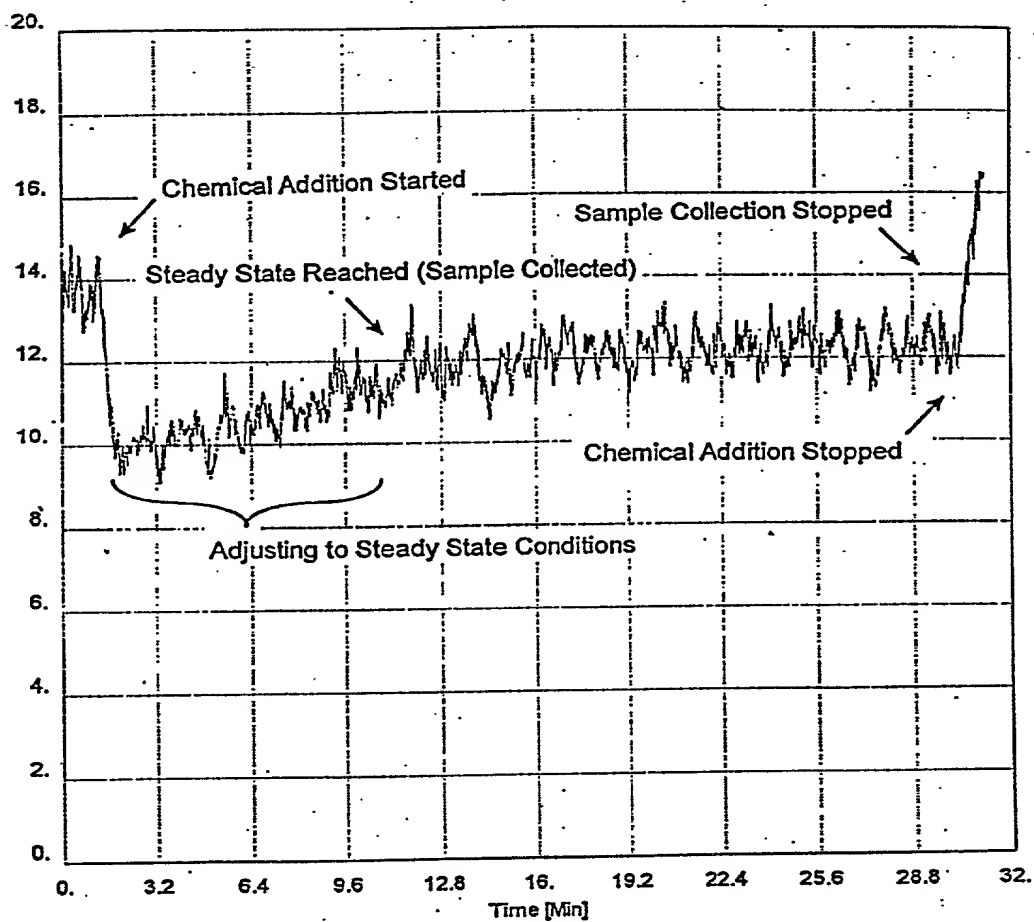
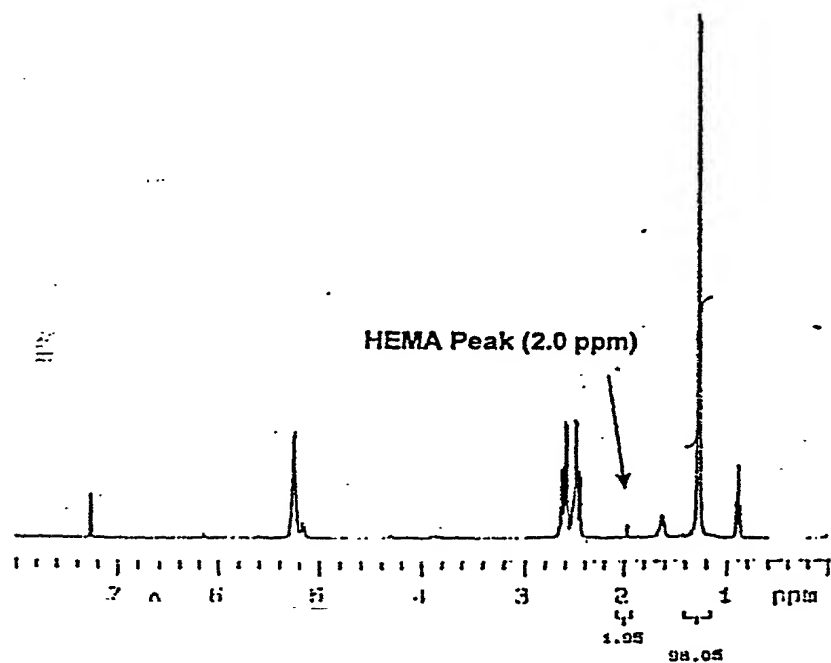
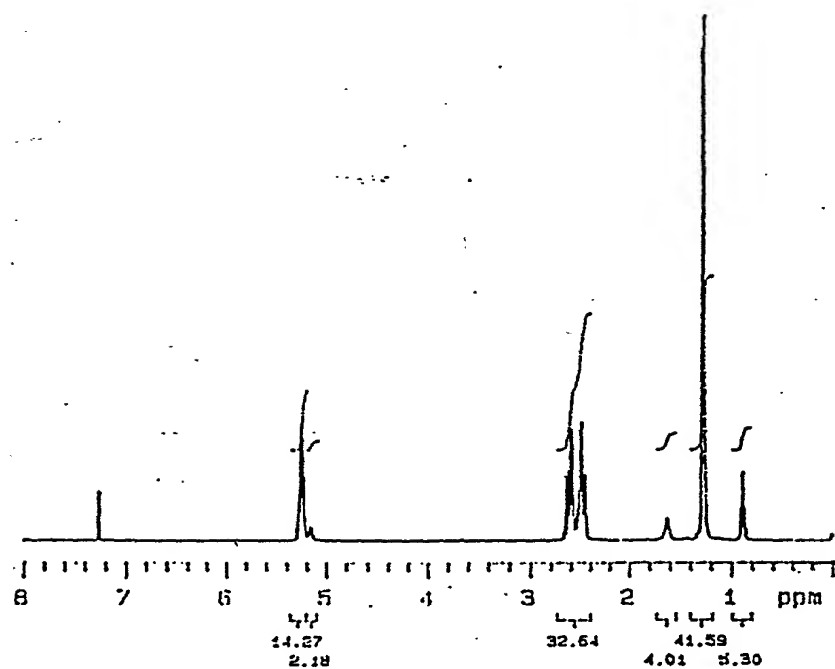


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV



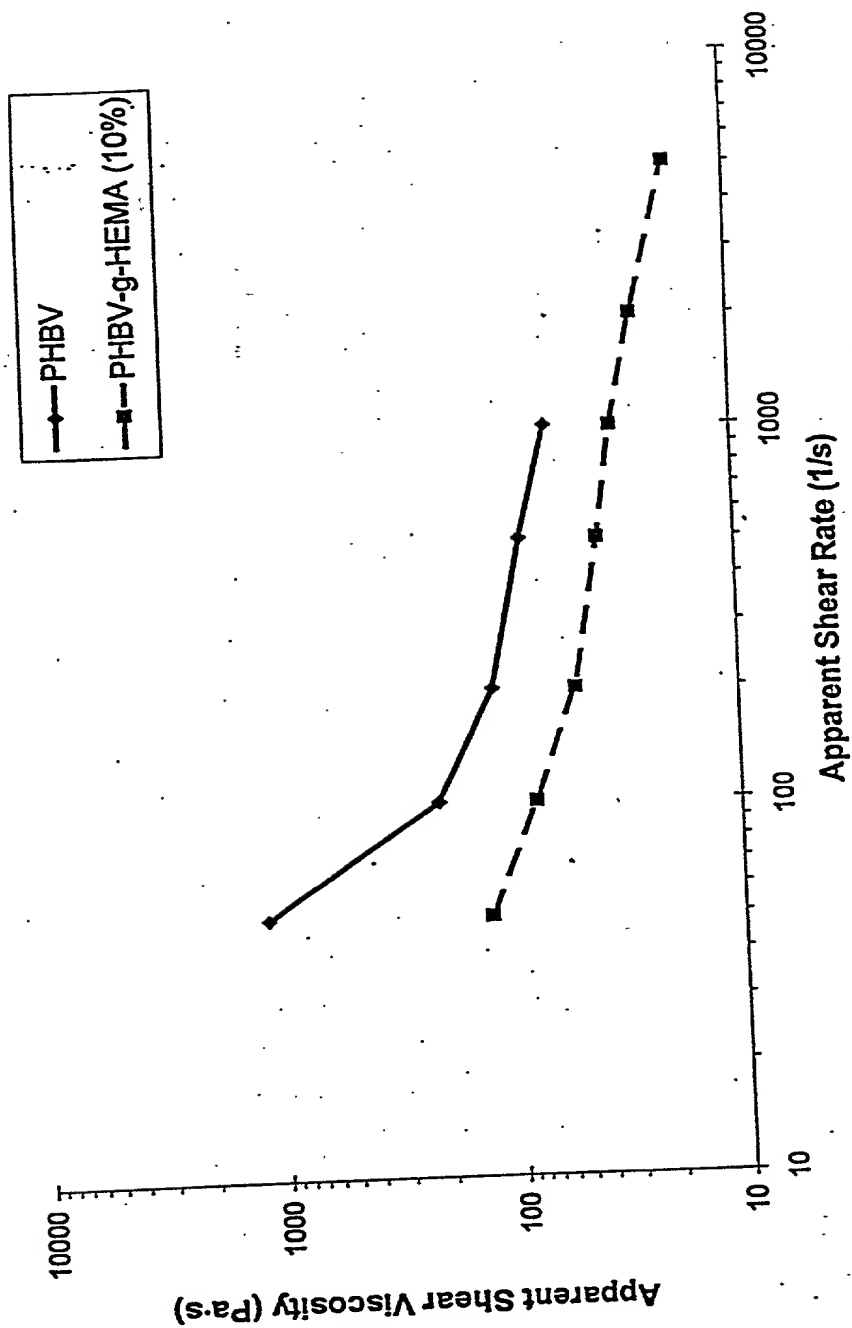
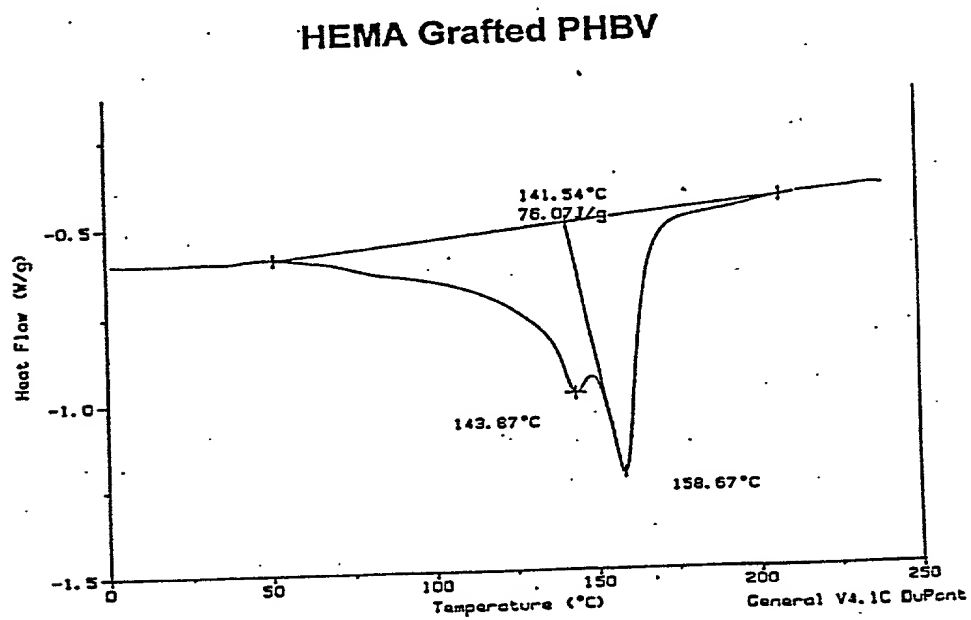
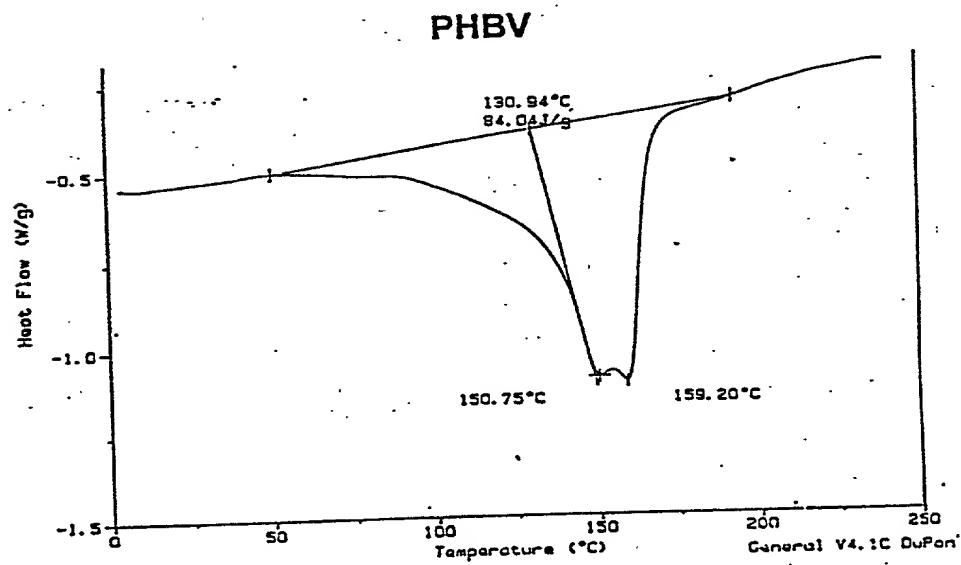


Figure. 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



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Figure 5 Torque vs. Time Chart for reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m·g

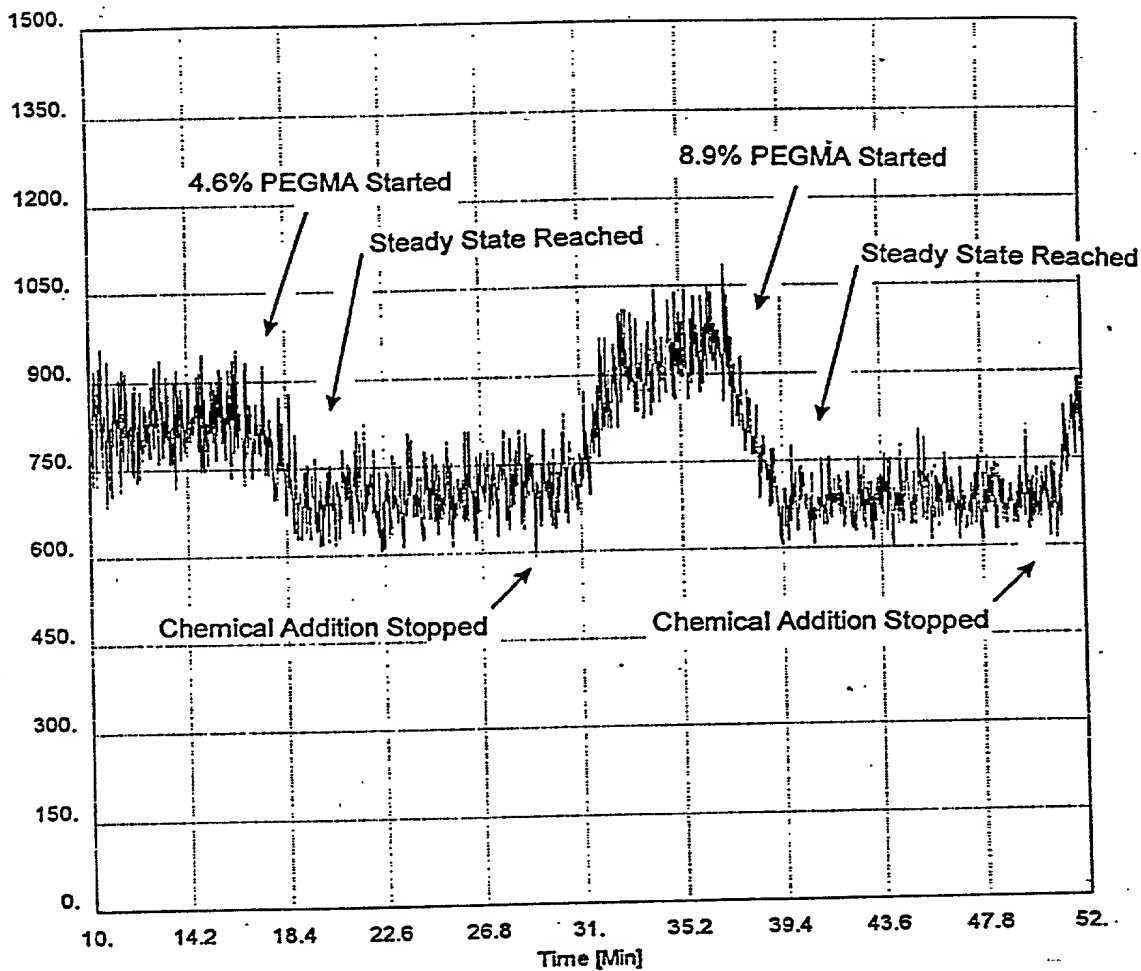


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

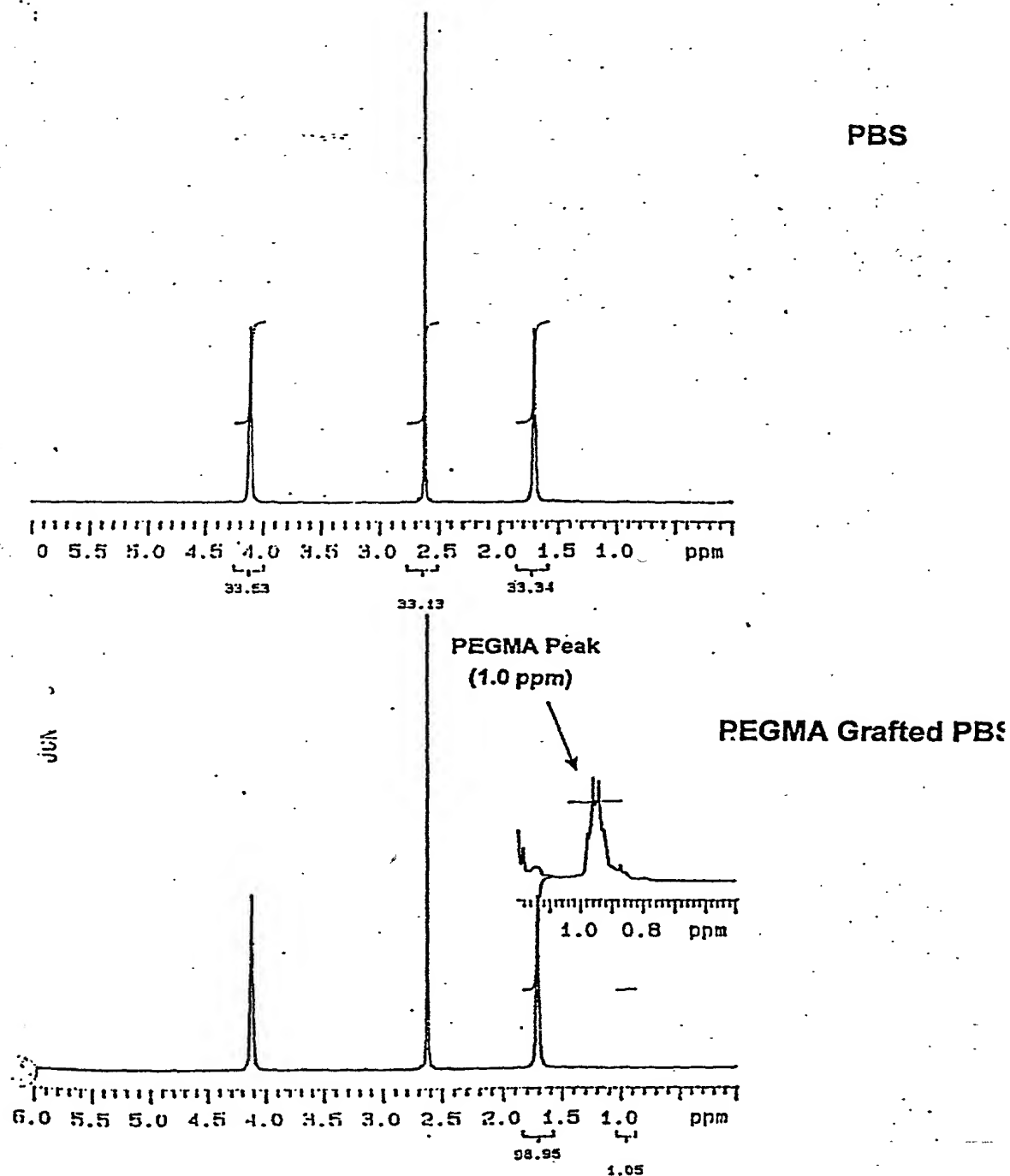


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

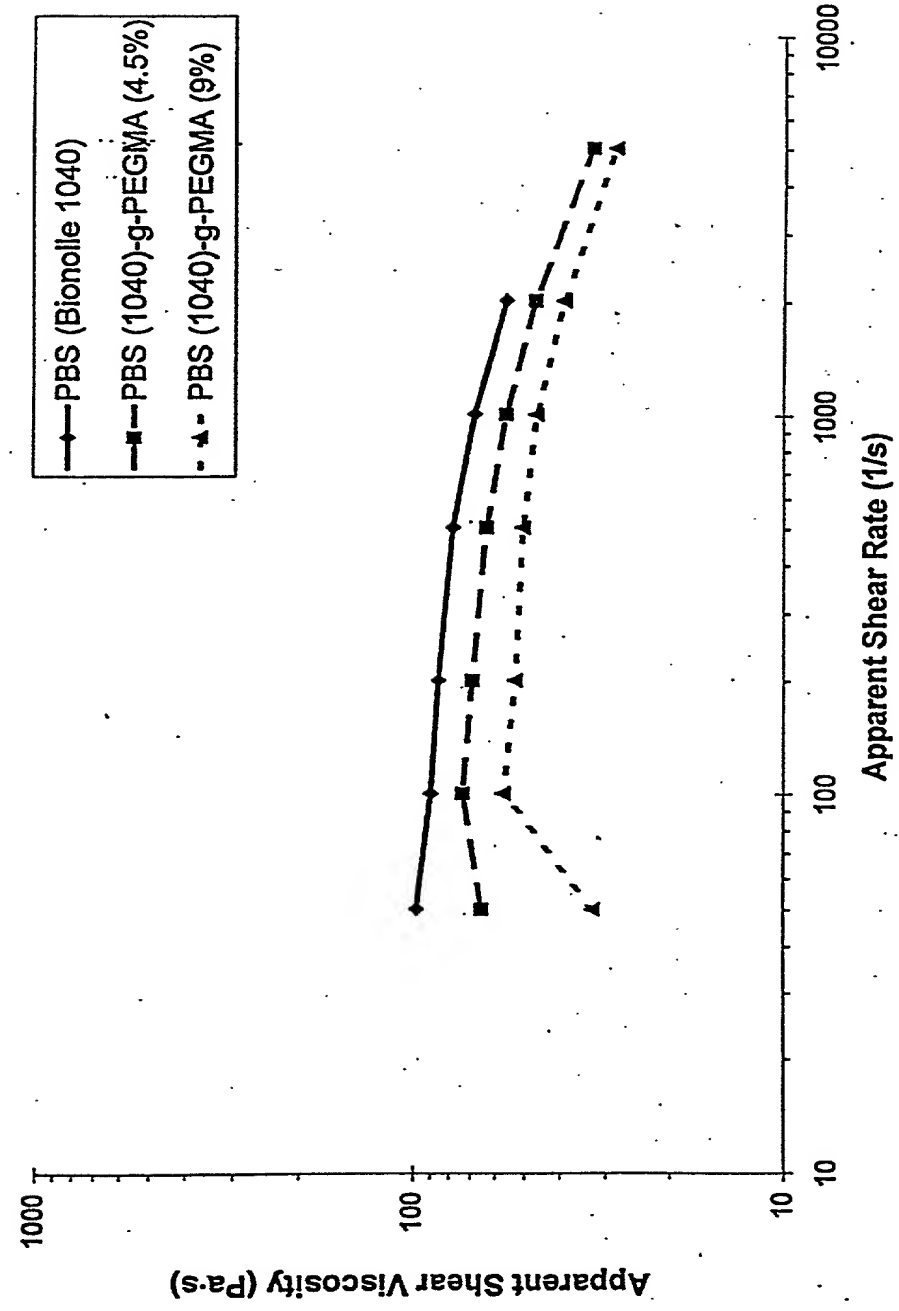


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

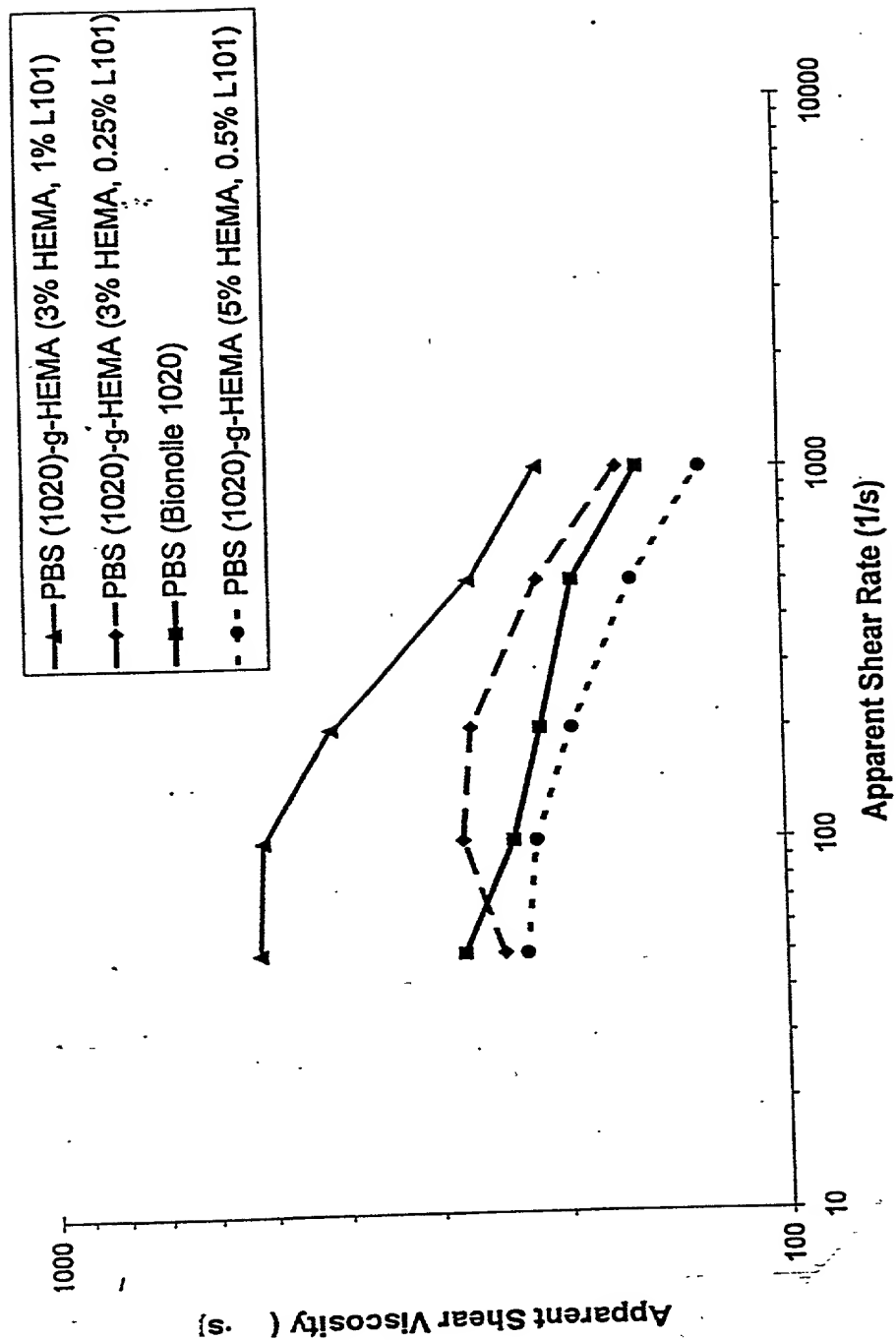


Figure 9 DSC Thermogram for PBS and , EGMA Grafted PBS 1040

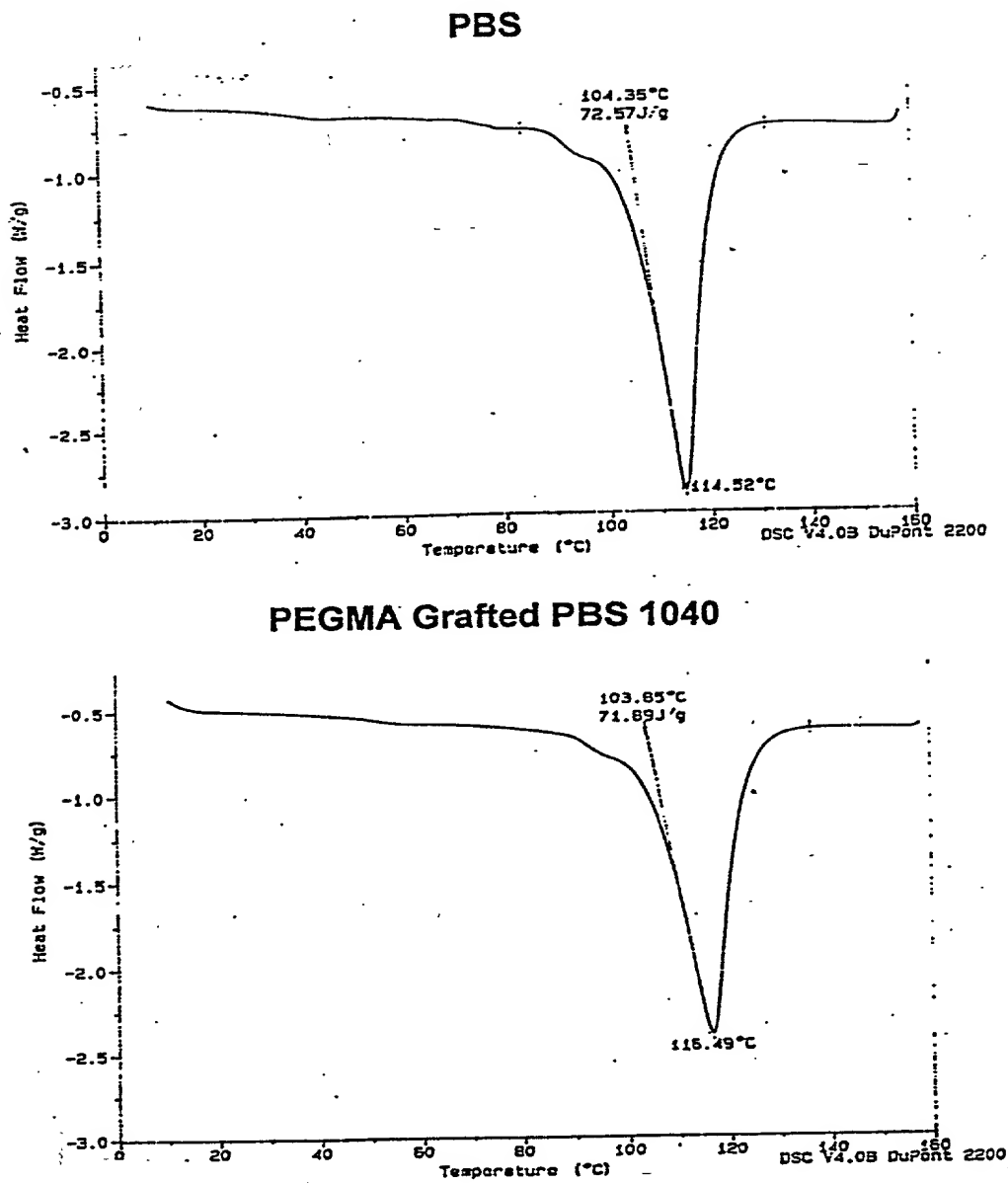


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

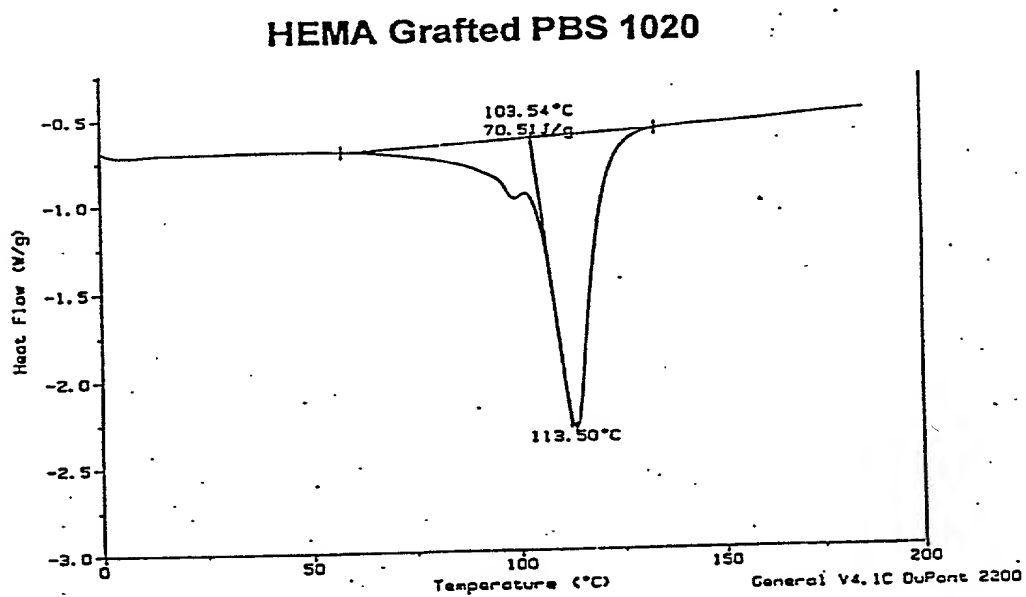
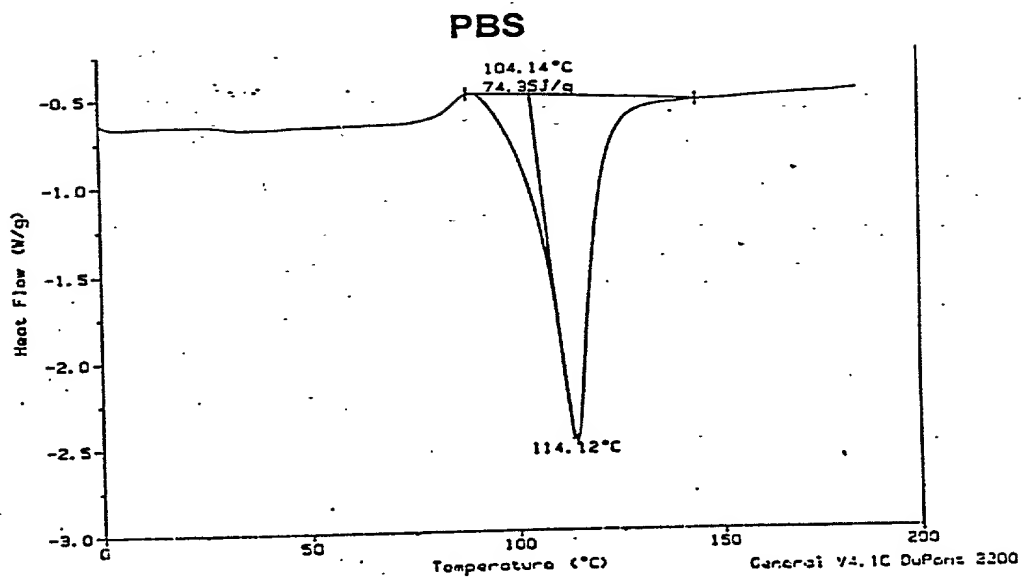
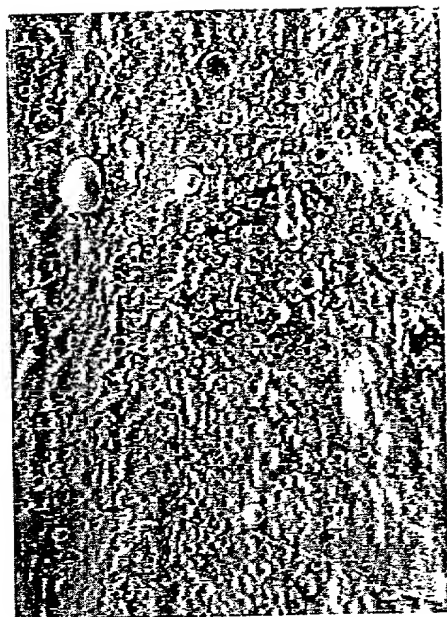
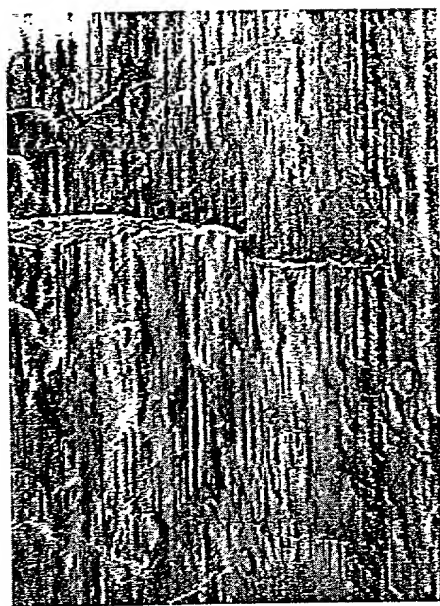


Figure 11



— 10 µm

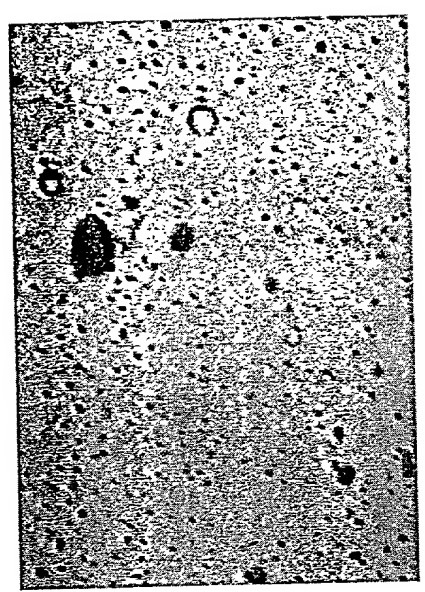
Figure 12



— 10 μm

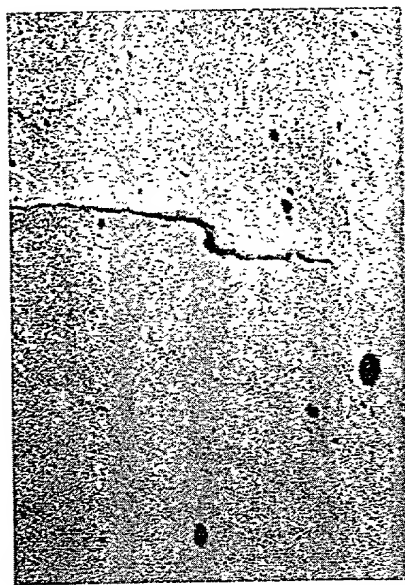
1002410" 40000000

Figure 13



— 10 μm

Figure 14



— 10 μm

Figure 15

T_m of PEO Phase of Reactive Blends

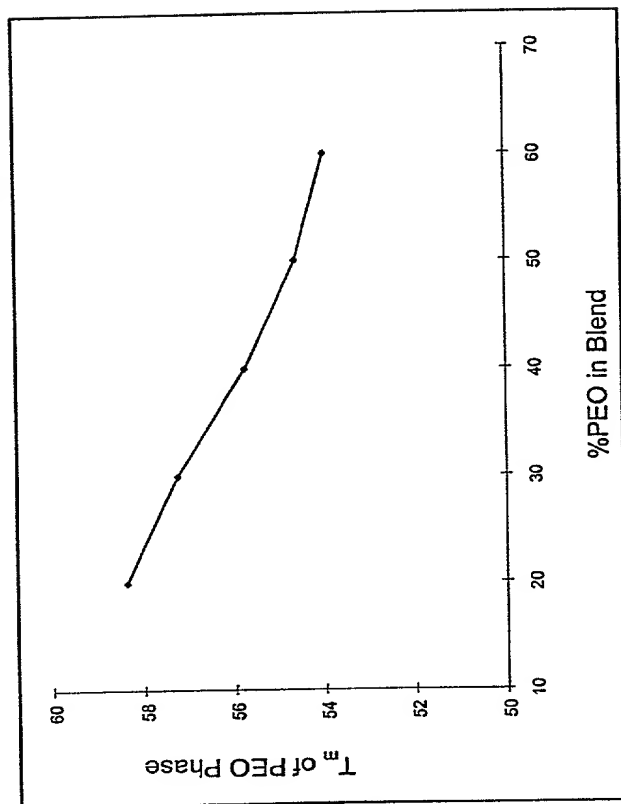


Figure 16

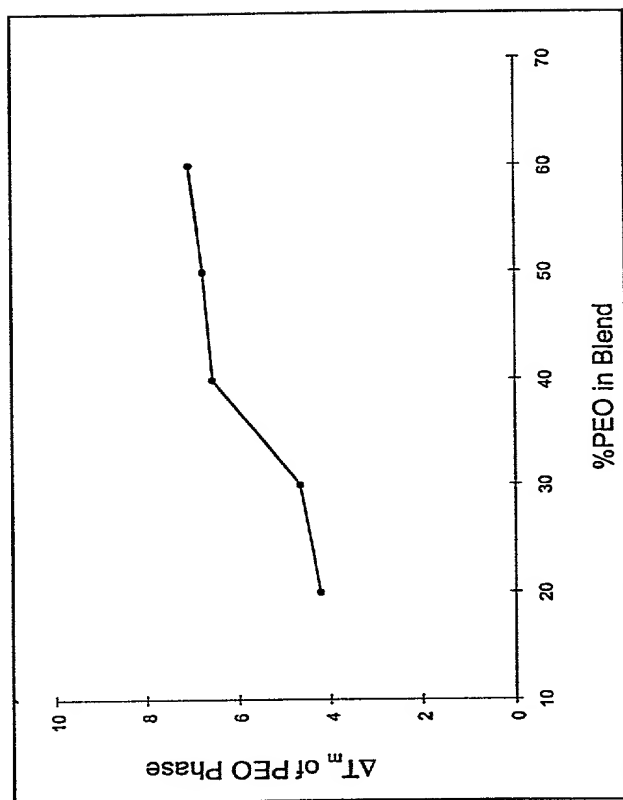
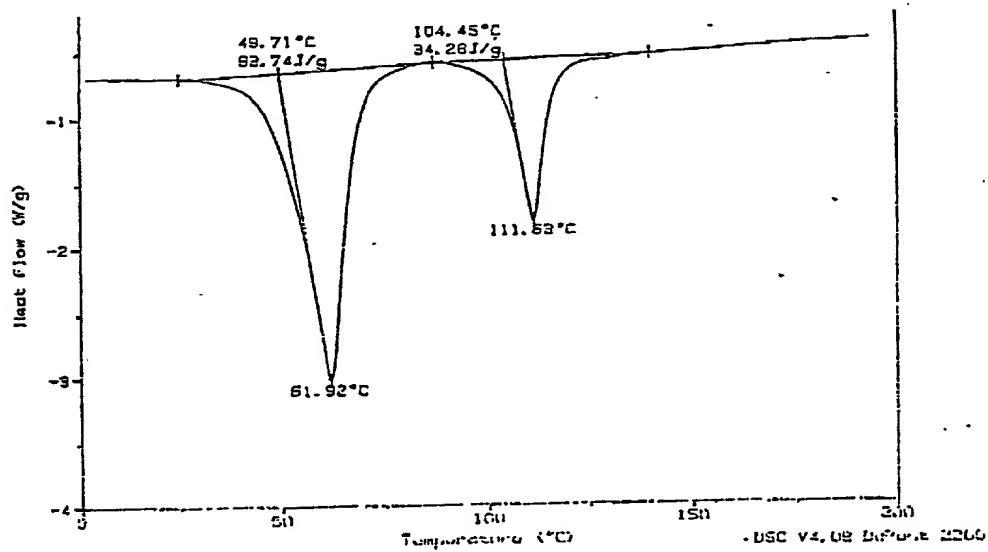
 $\Delta T_m \approx T_m$ (PEO Phase of Physical Blends) - T_m (Reactive Blends)

Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend

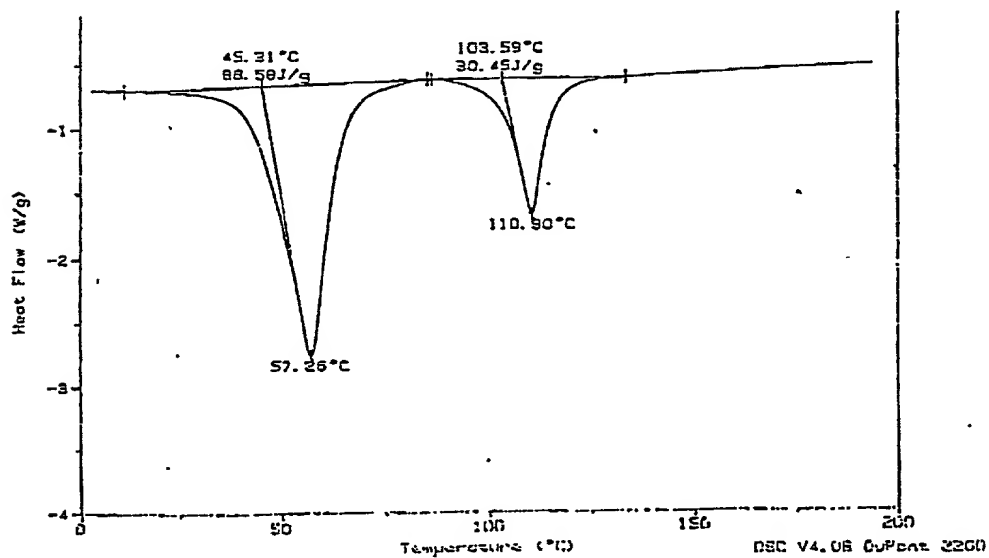


Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

